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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

10/13/2009

07/14/2006

MERCK AND CO., INC POBOX 2000 RAHWAY, NJ 07065-0907

EXAMINER SWOPE, SHERIDAN ART UNIT PAPER NUMBER

1652

DATE MAILED: 10/13/2009

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. Robert G.K. Donald 1341

TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING COCCIDIAN PARASITE CASEIN KINASE I, A CHEMOTHERAPEUTIC TARGET FOR

ANTIPROTOZOAL AGENTS

10/586,374

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/13/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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A. If the status is the same, pay the TOTAL FEE(S) DUE shown

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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							(Signature)
							(Date)
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
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EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
SWOPE, SI	HERIDAN	1652	536-023100				
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be	f a single firm (having as a member a rney or agent) and the names of up to tent attorneys or agents. If no name is e will be printed.			
PLEASE NOTE: Unli recordation as set forth (A) NAME OF ASSIC	ess an assignee is ident n in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assigne assignment. 'and STATE OR CO	OUNT.	RY)	ocument has been filed for up entity Government
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/586,374	07/14/2006	Robert G.K. Donald	21554P	1341	
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MERCK AND CO., INC			SWOPE, SHERIDAN		
P O BOX 2000			ART UNIT	PAPER NUMBER	
RAHWAY, NJ 07065-0907			1652		
			DATE MAILED; 10/13/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 423 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 423 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/586,374	DONALD ET AL.	
Notice of Allowability	Examiner	Art Unit	
	SHERIDAN SWOPE	1652	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	
1. \boxtimes This communication is responsive to <u>September 29, 2009</u> .			
2. ☑ The allowed claim(s) is/are <u>12-19 and 38</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the deponsion of	con's Patent Drawing Review (PTO- c. s Amendment / Comment or in the C c.84(c)) should be written on the drawing the header according to 37 CFR 1.121(c sit of BIOLOGICAL MATERIAL n	office action of ngs in the front (not the back) of a). nust be submitted. Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material /SHERIDAN SWOPE/ Primary Examiner, Art Unit 1652	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e	

DETAILED ACTION

Applicants' After Final of September 29, 2009, to the Action on the Merits of this case mailed June 20, 2009, is acknowledged. It is acknowledged that no claims have been cancelled or added and Claims 12 and 38 have been amended. Claims 12-19 and 38 are pending and are hereby reconsidered.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claims

Replace Claim 12 with:

- 12. A purified nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of:
 - (a) a nucleotide sequence which encodes the amino acid sequence of SEQ ID NO:2; and
- (b) a nucleotide sequence which hybridizes under conditions of high stringency to the complement of a second nucleic acid molecule which encodes the amino acid sequence of SEQ ID NO:2, wherein high stringency conditions are 0.1X SSC at about 68°C,

wherein the nucleotide sequence is a coccidian sequence and encodes an amino acid sequence that has at least 90% identity to the amino acid sequence of SEQ ID NO:2 and has casein kinase I (CKI) activity.

Amend Claims as follows:

For Claims 14 and 18, replace –A recombinant host cell- with –An isolated recombinant host cell-.

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For Claim 15a, replace –host cell- with –isolated host cell-.

For Claim 19, lines 1-2, replace –a recombinant host cell- with –an isolated recombinant host cell-.

For Claim 19a, replace –host cell- with –isolated host cell-.

For Claim 38, replace - A purified nucleic acid molecule of claim 12- with -The purified nucleic acid molecule of claim 12-.

Authorization for this examiner's amendment was given by Melissa Wenk on October 8, 2009.

Allowable Subject Matter

Claims 12-19 and 38 are allowed.

The following is an examiner's statement of reasons for allowance.

All allowable claims, Claims 12-19 and 38, are limited to isolated nucleic acid molecules, vectors, host cells, and methods of making the encoded protein of the nucleotide sequence of SEQ ID NO: 1 or encoding the amino acid sequence of SEQ ID NO: 2 and variants thereof. The utility of said polynucleotides, as encoding a casein kinase I, is credible based on expression in heterologous host cells and analysis by an enzymatic assay using casein and other casein kinase I substrates (Fig 6; [166-169][0182,0185,0187]). Casein kinases are known to have utility in the production of caseinophosphopeptides, which have use a dietary supplements (McDonagh et al, 1998).

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Sheridan L. Swope whose telephone number is 571-272-0943. The

examiner can normally be reached on M-F; 9:30-7 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Andrew Wang, can be reached on 571-272-0811. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published application

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on the access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/SHERIDAN SWOPE/

Primary Examiner, Art Unit 1652